Chilhowie High School
Ecology
Dr. Mark Frazier
Room 207

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Ecology will draw on

Classroom expectations:

The maintaining of a safe, respectful, and orderly classroom is of the utmost importance. To establish such an environment the following classroom rules are implemented:

1. Arrive for class on time, prepared to work, with all assignments and supplies.
2. Sit in your seat unless given permission to leave it.
3. Keep your hands and your feet to yourself
4. Speak in class only if given permission; speak only about the lesson when the teacher is teaching.
5. Follow directions from the teacher immediately.
6. Food and drinks are allowed only at your desk, never at lab benches.

What to bring to class:

- Pencils (necessary for working math-based problems)
- Pen (may be used for note-taking if preferred)
- Red pen for marking assignments
- Notebook (Loose-leaf, three-ring binder, at least 1 inch)
- Loose leaf notebook paper
- You may want to bring your own calculator to class. You will need your own for homework, but you can "check out" a calculator for use in the classroom.

Bell work

Upon entering the classroom at the beginning of each block there will be a "bell work" assignment on the front board. The first several minutes of each class will involve working on this initial assignment, either individually or in pairs, as assigned.

Grading

Grades for the course will be determined as follows:

30% Class participation/Lab reports
30% Other written assignments, including problem sets
40% Examinations

Course Overview

Week 1: Introduction to Chemistry, Matter and Change, Scientific Measurement (Chs. 1, 2, 3)
Diagnostic Test (Pre-test)

Week 2: Scientific Measurement, con't, Atomic Structure (Chs. 3, 4)

Week 3: Electrons and Atoms, The Periodic Table (Chs. 5, 6)

Week 4: Ionic and Metallic Bonding (Ch. 7)
Benchmark Test 1

Week 5: Covalent Bonding (Ch. 8)

Week 6: Chemical Names and Formulas (Ch. 9)

Week 7: Chemical Quantities (Ch. 10)

Week 8: Chemical Reactions (Ch. 11)

Week 9: Stoichiometry (Ch. 12)
Mid-Term Examination

Week 10: States of Matter, Behavior of Gases (Chs. 13-14)

Week 11: Water and Aqueous Solutions, Solutions (Chs. 15-16)

Week 12: Thermochemistry, Reaction Rates and Equilibrium (Chs. 17-18)

Week 13: Reaction Rates and Equilibrium, con't, Acids, Bases, and Salts (Chs. 18, 19)
Benchmark Test 2

Week 14: Oxidation-Reduction Reactions, Electrochemistry (Chs. 20, 21)

Week 15: Hydrocarbon Compounds, Functional Groups (Chs. 22, 23)

Week 16: Functional Groups, con't, The Chemistry of Life (Chs. 23-24)

Winter Break?

Week 17: Nuclear Chemistry, SOL Review, SOL??

Week 18: Enrichment Activities.